

Table 2: p24

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
30 3A6	p24(1–17)	p24(122–149 BH10)	TGHSSQVSQNYPIVQNI-QQQMVHQAIISP	no	HIV-1 infection	human(IgG ₁ κ)
	References: [Buchacher (1992), Buchacher (1994)]					
	<ul style="list-style-type: none"> • 3A6: The reactive peptide spans the p17/p24 border of gag –Buchacher94 • 3A6: Human MAbs against HIV generated by electrofusion of PBL from HIV-1 positive volunteers with CB-F7 cells –Buchacher94 					
31 111/182	p24(1–20)	p24(134–153 IIIB)	PIVQNIQGQMVMHQAIISP-RTL	no	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig (1991)]					
	<ul style="list-style-type: none"> • 111/182: Test specific evidence of cross-reactivity between HIV-1, HIV-2 and SIV MAC –Niedrig91 					
32 112/021	p24(1–20)	p24(134–153 IIIB)	PIVQNIQGQMVMHQAIISP-RTL	no	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig (1991)]					
	<ul style="list-style-type: none"> • 112/021: Test specific evidence of cross-reactivity between HIV-1, HIV-2 and SIV MAC –Niedrig91 					
33 112/047	p24(1–20)	p24(134–153 IIIB)	PIVQNIQGQMVMHQAIISP-RTL	no	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig (1991)]					
	<ul style="list-style-type: none"> • 112/047: Test specific evidence of cross-reactivity between HIV-1, HIV-2 and SIV MAC –Niedrig91 					
34 ID8F6	p24(11–25)	p24(143–157 BRU)	VHQQAISPRTLNAWVK	no	Inact CBL-1	murine(IgG ₁)
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns (1987), Ferns (1989)]					
	<ul style="list-style-type: none"> • ID8F6: Reacted with both p55 and p24 – showed less than 75% homologous inhibition –Ferns87 • ID8F6: UK Medical Research Council AIDS reagent: ARP348 					
35 F5-2	p24(14–23)	p24(14–23 HXB2)	AISPRTLNAW	no	?	murine()
	References: [Kusk (1988), Kusk (1992)]					
	<ul style="list-style-type: none"> • F5-2: In HIV-1+ individuals, antibody to AISPRTLNAW is associated with CD4 T-cell decline –Kusk88,Kusk92 					

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
36 CB-13/5	p24(21–25)	p24(152–156)	NAWVK	no	?	murine(IgG ₁ κ)
	References: [Grunow (1990), Franke (1992), Kuttner (1992), Glaser & Hausdorff(1996)]					
	<ul style="list-style-type: none"> • CB-13/5: It is not clear whether the Mabs CD-13/5 and CB-mab-p24/13-15 are the same, but from the shared references in the primary articles they seem to be (database note) • CB-13/5: Called CB-mab-p24/13-15 – the VDJ H and VJ L regions of CB-mab-p24/13-15 were sequenced –Kuttner92 • CB-13/5: Inhibits spread of HIV-1 in cell cultures –Franke92 • CB-13/5: Epitope described as VHQAISPRTLNAWVK – binding not affected by bound MAb CB-4/1 –Glaser96 					
37 3D3	p24(45–50)	p24(177–182 LAI)	EGATPQ	Inact	CBL-1	murine(IgG _{2b})
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns (1987), Ferns (1989)]					
	<ul style="list-style-type: none"> • 3D3: Most broadly reactive of all the antibodies in this study –Ferns87 • 3D3: UK Medical Research Council AIDS reagent: ARP314 					
38 CD-4/1	p24(46–56)	p24(182–197)	GATPQDLNTML	no	rec p24-β-galactosidase fusion protein	murine(IgG _{2a} κ)
	References: [Grunow (1990), Franke (1992), Hohne (1993), Glaser & Hausdorff(1996), Ehrhard (1996)]					
	<ul style="list-style-type: none"> • CD-4/1: Inhibits spread of HIV-1 in cell cultures –Franke92 • CD-4/1: Affinity of CB-4/1 to native p24 is lower than to peptide or denatured p24 – proposed that the peptide binds in a loop conformation –Hohne93 • CD-4/1: Unusual p24-MAb binding kinetics, with biphasic association – probably due to conformational changes in p24, not to p24 dimerization –Glaser96 • CD-4/1: Modification of p24 lysine residues by maleic anhydrid increased the affinity of CD-4/1, presumably due to conformational changes exposing a cryptic epitope –Ehrhard96 					
39 15F8C7	p24(47–56)	p24(183–197)	ATPQDLNTML	no	Purified HIV-1	murine(IgG ₁)
	References: [Janvier (1990)]					
	<ul style="list-style-type: none"> • 15F8C7: Mapped to aa209-217 through Pepscan method – cross-reacts with HIV-2 –Janvier90 – maps to aa203-217 through EIA pentadecapeptide –Janvier92 					
40 111/052	p24(51–60)	p24(183–192 IIIB)	DLNTMLNTVG	no	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig (1991)]					
	<ul style="list-style-type: none"> • 111/052: Weak cross-reaction with HIV-2 on WB, otherwise not cross-reactive with HIV-2 or SIV MAC –Niedrig91 					

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
41 91-5	p24(64–75) References: [Gorny (1989), Tyler (1990), Robinson (1990b), Gorny (1998)] <ul style="list-style-type: none">• 91-5: Synthesized by immortalization of peripheral blood cells with Epstein-Barr virus –Gorny89• 91-5: Did not enhance HIV-1 IIIB infection –Robinson90a• 91-5: NIH AIDS Research and Reference Reagent Program: 1238	p24(196–207)	AAMQMLKETINE	no	HIV-1 infection	human(IgG ₁ λ)
42 47-2	p24(69–86) References: [Robert-Hebmann (1992b), Robert-Hebmann (1992a)]	p24(201–218 BRU)	LKETINEEAAEWDRVHPV	no	BRU	murine(IgG)
43 714/01	p24(69–86) References: [Robert-Hebmann (1992b), Robert-Hebmann (1992a)]	p24(201–218 BRU)	LKETINEEAAEWDRVHPV	no	IIIB virus	murine(IgG)
44 1109/01	p24(69–86) References: [Robert-Hebmann (1992b), Robert-Hebmann (1992a)]	p24(201–218 BRU)	LKETINEEAAEWDRVHPV	no	IIIB virus	murine(IgG)
45 1G5C8	p24(69–86) References: [Janvier (1990), Robert-Hebmann (1992b), Robert-Hebmann (1992a)] <ul style="list-style-type: none">• 1G5C8: Mapped to aa209-217 through Pepscan method (original paper, AAEWDRVHP) –Janvier90 – and to aa203-217 through EIA pentadecapeptide –Janvier92	p24(201–218 BRU)	LKETINEEAAEWDRVHPV	no	HIV-1 p24	murine(IgG _{2b})
46 14D4E11	p24(69–86) References: [Janvier (1990), Robert-Hebmann (1992b), Robert-Hebmann (1992a)] <ul style="list-style-type: none">• 14D4E11: Mapped to aa209-217 through Pepscan method (original paper, AAEWDRVHP) – cross-reacts with HIV-2 –Janvier90 – and to aa203-217 through EIA pentadecapeptide –Janvier92	p24(201–218 BRU)	LKETINEEAAEWDRVHPV	no	Purified HIV-1	murine(IgG ₁)
47 113/038	p24(71–81) References: [Niedrig (1991)] <ul style="list-style-type: none">• 113/038: cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple assays –Niedrig91	p24(203–213 IIIB)	ETINEEAAEWD	no	IIIB p24-β-gal fusion	murine(IgG ₁)

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HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
48 111/073	p24(71–81)	p24(203–213 IIIB)	ETINEEAAEWD	no	IIIB p24- β -gal fusion	murine(IgG ₁)
	References: [Niedrig (1991)] <ul style="list-style-type: none">• 111/073: cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple assays –Niedrig91					
49 1-E-4	p24(71–85)	p24(203–217)	ETINEEAAEWDRVHP	no	IIIB virus	murine(IgG)
	References: [Niedrig (1989)] <ul style="list-style-type: none">• 1-E-4: One of nine MAbs that bind to this peptide –Niedrig89					
50 1-E-9	p24(71–85)	p24(203–217)	ETINEEAAEWDRVHP	no	IIIB virus	murine(IgG)
	References: [Niedrig (1989)] <ul style="list-style-type: none">• 1-E-9: One of nine MAbs that bind to this peptide –Niedrig89					
51 2-E-4	p24(71–85)	p24(203–217)	ETINEEAAEWDRVHP	no	IIIB virus	murine(IgG _{2a})
	References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 2-E-4: Cross reactive between HIV-1, HIV-2 and SIV by ELISA, HIV-1 and HIV-2 by WB –Niedrig88• 2-E-4: One of nine MAbs that bind to this peptide – cross-reactive with HIV-2 ROD –Niedrig89					
52 2-H-4	p24(71–85)	p24(203–217)	ETINEEAAEWDRVHP	no	IIIB virus	murine(IgG ₁)
	References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 2-H-4: Cross reactive between HIV-1, HIV-2 and SIV by ELISA, HIV-1 and HIV-2 by WB –Niedrig88• 2-H-4: One of nine MAbs that bind to this peptide – cross-reactive with HIV-2 ROD –Niedrig89					
53 8-D-2	p24(71–85)	p24(203–217)	ETINEEAAEWDRVHP	no	IIIB virus	murine(IgG _{2a})
	References: [Niedrig (1989), Robert-Hebmann (1992b), Robert-Hebmann (1992a)] <ul style="list-style-type: none">• 8-D-2: HIV-1 specific –Niedrig88• 8-D-2: One of nine MAbs that bind to this peptide –Niedrig89					
54 8-H-7	p24(71–85)	p24(203–217)	ETINEEAAEWDRVHP	no	IIIB virus	murine(IgG ₃)
	References: [Niedrig (1988), Niedrig (1989), Robert-Hebmann (1992b), Robert-Hebmann (1992a)] <ul style="list-style-type: none">• 8-H-7: One of nine MAbs that bind to this peptide –Niedrig89					
55 8-G-9	p24(71–85)	p24(203–217)	ETINEEAAEWDRVHP	no	IIIB virus	murine(IgG)
	References: [Niedrig (1989)] <ul style="list-style-type: none">• 8-G-9: One of nine MAbs that bind to this peptide –Niedrig89					

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
56 10-E-7	p24(71–85) References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 10-E-7: Cross reactive between HIV-1, HIV-2 and SIV –Niedrig88• 10-E-7: One of nine MAbs that bind to this peptide – cross-reactive with HIV-2 ROD and SIV MAC –Niedrig89	p24(203–217)	ETINEAAEWDRVHP	no	IIIB virus	murine(IgG ₁)
57 10-G-9	p24(71–85) References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 10-G-9: HIV-1 specific –Niedrig88• 10-G-9: One of nine MAbs that bind to this peptide –Niedrig89	p24(203–217)	ETINEAAEWDRVHP	no	IIIB virus	murine(IgG ₁)
58 11-C-5	p24(71–85) References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 11-C-5: HIV-1 specific –Niedrig88• 11-C-5: One of nine MAbs that bind to this peptide –Niedrig89	p24(203–217)	ETINEAAEWDRVHP	no	IIIB virus	murine(IgG ₁)
59 C5123	p24(71–85) References: [Hinkula (1990)] <ul style="list-style-type: none">• C5123: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90	p24(203–217 HXB2)	ETINEAAEWDRVHP	no	Inact HIV lysate	murine(IgG ₁ κ)
60 1-B-7	p24(76–85) References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 1-B-7: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 and SIV MAC –Niedrig89	p24(208–217 BH10)	EAAEWDRVHP	no	IIIB	murine(IgG ₁)
61 3-B-7	p24(76–85) References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 3-B-7: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 –Niedrig89	p24(208–217 BH10)	EAAEWDRVHP	no	IIIB	murine(IgG ₁)
62 6-D-12	p24(76–85) References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 6-D-12: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 –Niedrig89	p24(208–217 BH10)	EAAEWDRVHP	no	IIIB	murine(IgG ₁)
63 6-E-7	p24(76–85) References: [Niedrig (1988), Niedrig (1989)] <ul style="list-style-type: none">• 6-E-7: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 and SIV MAC –Niedrig89	p24(208–217 BH10)	EAAEWDRVHP	no	IIIB	murine(IgG ₁)

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HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
64 8-D-5	p24(76–85) References: [Niedrig (1988), Niedrig (1989)] • 8-D-5: Reacts with two overlapping peptides, region of overlap is given – bound only HIV-1 –Niedrig89	p24(208–217 BH10)	EAAEWDRVHP	no	IIIB	murine(IgG)
65 FF1	p24(76–90) References: [Hinkula (1990)] • FF1: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90	p24(208–222 HXB2)	EAAEWDRVHPVHAGP	no	Inact HIV	murine(IgG ₁ κ)
66 113/072	p24(81–90) References: [Niedrig (1991)] • 113/072: Weak cross-reaction with HIV-2 on WB, otherwise not cross-reactive with HIV-2 or SIV MAC –Niedrig91	p24(213–222 IIIB)	DRVHPVHAGP	no	IIIB p24-β-gal fusion	murine(IgG ₁)
67 25.3	p24(82–102) References: [Momany (1996)] • 25.3: Crystal structure of the CA protein bound to Fab 25.3 was solved – monomers form 7 alpha-helices arranged in a coiled-coil – Fab binds to a long antigenic peptide that separates the longest helices, with a salt bridge at CA 82 R, and interactions as far away as positions 100 and 102 –Momany96	p24(82–102)	RVHPVHAGPIAPGQMRE-PRGS	no		murine(IgG ₁ κ)
68 13-102-100	p24(86–97) Donor: Advanced Technologies, Inc., Columbia, MD References: [Parker (1996), Qian & Tomer(1998)] • 13-102-100: Binding site (HPVHAGPIAPG) defined by epitope footprinting – first binding p24 to MAb, then allowing proteolytic cleavage to take place to cleave unprotected residues, then performing mass spectrometry to identify protected residues of epitope –Parker96 • 13-102-100: Affinity capillary electrophoresis was used to fine map this epitope, and the optimal peptide was defined as VHAGPIAPGIAP – this method uses migration time shifts to probe relative affinities of Abs – the antibody binds to the cyclophilin A binding domain –Qian98	p24(102–112 IIIB)	VHAGPIAPGIAP			murine(IgG)
69 RL4.72.1	p24(87–101) References: [Tatsumi (1990), Robert-Hebmann (1992b), Robert-Hebmann (1992a)] • RL4.72.1: Immunized with inactivated HIV NDK, D clade, reacts with B clade peptide –RobertHebmann92b	p24(219–233 BRU)	HAGPIAPGQMREPRG	no	NDK	murine(IgG)

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
70 406/01	p24(101–121)	p24(233–253 BRU)	GSDIAGTTSTLQEIQIGW-MTNN	no	IIIB	murine(IgG)
	References: [Robert-Hebmann (1992b), Robert-Hebmann (1992a)]					
71 38:9.6K	p24(121–130)	p24(253–262 HXB2)	NPPIPVG EIY	no	rec p24-15	murine(IgG ₁ κ)
	References: [Hinkula (1990)] <ul style="list-style-type: none"> • 38:9.6K: Called 38:9.6K – epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90 • 38:9.6K: UK Medical Research Council AIDS reagent: ARP365 					
72 EB1A9	p24(121–135)	p24(253–267 LAI)	NPPIPVG EIY KRWII	Inact	CBL-1	murine(IgG ₁)
	Donor: R. B. Ferns and R. S. Tedder References: [Ferns (1987), Ferns (1989)] <ul style="list-style-type: none"> • EB1A9: Reacted with both p55 and p24 – showed less than 75% homologous inhibition –Ferns87 • EB1A9: UK Medical Research Council AIDS reagent: ARP345 					
73 EF7	p24(141–170)	p24(273–302 HXB2)	IVRMYSP T SILD I RQGP-KEPFRDYVDRFYK	rec	p24-15	murine(IgG ₁ κ)
	References: [Hinkula (1990), Lundin (1996)] <ul style="list-style-type: none"> • EF7: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 –Hinkula90 • EF7: Included as a control –Lundin96 • EF7: UK Medical Research Council AIDS reagent: ARP366 					
74 30:3E5	p24(141–170)	p24(273–302 HXB2)	IVRMYSP T SILD I RQGP-KEPFRDYVDRFYK	rec	p24-15	murine(IgG ₁ λ)
	Donor: B. Wahren References: [Hinkula (1990)] <ul style="list-style-type: none"> • 30:3E5: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90 • 30:3E5: UK Medical Research Council AIDS reagent: ARP367 					
75 LH-104-E	p24(143–148)	p24(275–280 BRU)	RMYSPT	no	Peptide	murine(IgG ₁ κ)
	References: [Haaheim (1991)] <ul style="list-style-type: none"> • LH-104-E: Reacts with both p24 and p55 –Haaheim91 • LH-104-E: UK Medical Research Council AIDS reagent: ARP319 					

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HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
76 1B2C12	p24(149–154) References: [Janvier (1990)] <ul style="list-style-type: none">• 1B2C12: Reacts with HIV-1 and HIV-2 – mapped to aa281-286 through Pepscan method –Janvier90, and to aa273-292 through EIA pentadecapeptide method –Janvier92	p24(273–292 IIIB)	SILDIR	no	purified HIV-1	murine(IgG ₁)
77 LH-104-K	p24(149–154) References: [Haaheim (1991)] <ul style="list-style-type: none">• LH-104-K: Binds exclusively with p24 (not p55) –Haaheim91• LH-104-K: UK Medical Research Council AIDS reagent: ARP322	p24(281–286 BRU)	SILDIR	no	Peptide	murine(IgG ₁ κ)
78 1A7	p24(152–172) References: [Otteken (1992)] <ul style="list-style-type: none">• 1A7: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H) and HIV-2smmH4, but not SIVagmTYO-1, HIV-1 IIIB or SIVmnd –Otteken92	p24(152–172 SIVmac)	CVKQGPKEPFQSYVDRF-YKSL	no	Inact AGMTYO-7	murine(IgG ₁)
79 1.17.3	p24(152–172) References: [Otteken (1992)] <ul style="list-style-type: none">• 1.17.3: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H) and HIV-2smmH4, but not SIVagmTYO-1, HIV-1 IIIB or SIVmnd –Otteken92	p24(152–172 SIVmac)	CVKQGPKEPFQSYVDRF-YKSL	no	Inact AGMTYO-7	murine(IgG ₁)
80 1F6	p24(152–172) References: [Otteken (1992)] <ul style="list-style-type: none">• 1F6: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H) and HIV-2smmH4, but not SIVagmTYO-1, HIV-1 IIIB or SIVmnd –Otteken92	p24(152–172 SIVmac)	CVKQGPKEPFQSYVDRF-YKSL	no	Inact AGMTYO-7	murine(IgG ₁)
81 23A5G5	p24(153–172) References: [Robert-Hebmann (1992b), Robert-Hebmann (1992a)]	p24(285–304 BRU)	IRQGPKEPFRDYVDRFY-KTL	no	IIIB p25	murine(IgG)

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isootype)
82 23A5G4	p24(153–172)	p24(285–304 IIIB)	IRQGPKEPFRDYVDRFY-KTL	no	HIV-1 p24	murine(IgG ₁)
	References: [Janvier (1990), Janvier (1996)]					
	<ul style="list-style-type: none"> • 23A5G4: Mapped to aa209–217 through Pepscan method –Janvier90 and to aa285–304 through EIA pentadecapeptide method –Janvier92 • 23A5G4: A few sera which were able to bind the linear sequence 178–192, but not sequence 288–302 in an indirect peptide ELISA inhibited the binding of 23A5G4 to the native p24 –Janvier96 					
83 3D10G6	p24(153–172)	p24(285–304 IIIB)	IRQGPKEPFRDYVDRFY-KTL	no	purified HIV-1	murine(IgG ₁)
	References: [Janvier (1990)]					
	<ul style="list-style-type: none"> • 3D10G6: Epitope cross-reacts with HIV-1 and HIV-2 – mapped to aa260–267 through Pepscan method –Janvier90 and to aa285–304 through EIA pentadecapeptide method –Janvier92 					
84 F5-4	p24(153–175)	p24(153–174 HXB2)	IRQGPKEPFRDYVDRFY-KTLRAE	no	?	murine()
	References: [Kusk (1988), Kusk (1992)]					
	<ul style="list-style-type: none"> • F5-4: Located in the most hydrophilic region of p24 –Kusk88,Kusk92 					
85 MO9.42.2	p24(153–178)	p24(285–310 BRU)	IRQGPKEPFRDYVDRFY-KTLRAEQAS	no	HIV2 ROD	murine(IgG)
	References: [Robert-Hebmann (1992b), Robert-Hebmann (1992a)]					
	<ul style="list-style-type: none"> • MO9.42.2: Reacts with HIV-1s, HIV-2s, and SIVs in rec protein ELISA –RobertHebmann92a 					
86 MO9.50.2	p24(153–178)	p24(285–310 BRU)	IRQGPKEPFRDYVDRFY-KTLRAEQAS	no	HIV2 ROD	murine(IgG)
	References: [Robert-Hebmann (1992b), Robert-Hebmann (1992a)]					
	<ul style="list-style-type: none"> • MO9.50.2: Reacts with HIV-1s, HIV-2s, and SIVs in rec protein ELISA –RobertHebmann92a 					
87 V10	p24(155–169)	p24(289–303 IIIB)	QGPKEPFRDYVDRFY	no	virion	murine()
	References: [Matsuo (1992)]					
	<ul style="list-style-type: none"> • V10: Reacts with HIV-1 and SIV AGM analogous peptides –Matsuo92 					

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HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
88 V107	p24(155–177)	p24(289–311 IIIB)	QGPKEPFRDYVDRFYKT-LRAEQA	no	Virion	murine()
	References: [Matsuo (1992)]					
	• V107: Reacts with FIV, HIV-1 and SIV AGM analogous peptides –Matsu92					
89 12-B-4	p24(161–170)	p24(293–302 BH10)	FRDYVDRFYK	no	IIIB virus	murine(IgG ₁)
	References: [Niedrig (1988), Niedrig (1989)]					
	• 12-B-4: Epitope is defined as the overlap between two HIV-1 reactive peptides – cross-reacts with HIV-2 ROD and SIV MAC –Niedrig88,Niedrig89					
90 C5122	p24(161–170)	p24(293–302 HXB2)	FRDYVDRFYK	no	Inact HIV lysate	murine(IgG ₁ κ)
	References: [Hinkula (1990)]					
	• C5122: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90					
91 9A4C4	p24(170–188)	p24(303–317 IIIB)	KTLRAEQASQEVKNWM-TET	no	IIIB p25	murine(IgG ₁)
	References: [Janvier (1990), Robert-Hebmann (1992b), Robert-Hebmann (1992a)]					
	• 9A4C4: Mapped to aa260-267 through Pepscan method –Janvier90 – and to aa303-317 through EIA pentadecapeptide method –Janvier92					
92 11D11F2	p24(171–185)	p24(303–317 IIIB)	TLRAEQASQEVKNWM	no	HIV-1 p24	murine(IgG ₁)
	References: [Janvier (1990)]					
	• 11D11F2: Mapped to aa260-267 through Pepscan method –Janvier90 – and to aa303-317 through EIA pentadecapeptide method –Janvier92					
93 11C10B10	p24(171–185)	p24(303–317 IIIB)	TLRAEQASQEVKNWM	no	HIV-1 p24	murine(IgG ₁)
	References: [Janvier (1990)]					
	• 11C10B10: Mapped to aa260-267 through Pepscan method –Janvier90 – and to aa303-317 through EIA pentadecapeptide method –Janvier92					
94 CD12B4	p24(171–185)	p24(303–317 LAI)	TLRAEQASQEVKNWM		Inact CBL-1	murine(IgG ₁)
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns (1987), Ferns (1989)]					
	• CD12B4: Reacted with both p55 and p24 – strain-specific binding –Ferns87					
	• CD12B4: UK Medical Research Council AIDS reagent: ARP346					

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
95 BE3	p24(176–190) Donor: B. Wahren References: [Hinkula (1990)] <ul style="list-style-type: none">• BE3: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90• BE3: UK Medical Research Council AIDS reagent: ARP368	p24(308–322 HXB2)	QASQEVKNWMTETLL	no	rec p24-15	murine(IgG ₁ κ)
96 L14	p24(176–190) Donor: B. Wahren References: [Hinkula (1990)] <ul style="list-style-type: none">• L14: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90• L14: UK Medical Research Council AIDS reagent: ARP369	p24(308–322 HXB2)	QASQEVKNWMTETLL	no	rec p24-15	murine(IgG ₁ κ)
97 110/015	p24(181–190) References: [Niedrig (1991)] <ul style="list-style-type: none">• 110/015: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests –Niedrig91	p24(313–322 IIIB)	VKNWMTETLL	no	IIIB p24-β-gal fusion	murine(IgG ₁)
98 108/03	p24(181–190) References: [Niedrig (1991)] <ul style="list-style-type: none">• 108/03: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests –Niedrig91	p24(313–322 IIIB)	VKNWMTETLL	no	IIIB p24-β-gal fusion	murine(IgG ₁)
99 32:32K	p24(199–222) References: [Hinkula (1990)] <ul style="list-style-type: none">• 32:32K: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90• 32:32K: UK Medical Research Council AIDS reagent: ARP368	p24(331–354 HXB2)	KTILKALGPAATLEEMM-TACQGVG	rec p24-15		murine(IgG ₁ λ)
100 C5200	p24(199–222) References: [Hinkula (1990)] <ul style="list-style-type: none">• C5200: Epitope defined by peptide blocking of binding to native protein –Hinkula90	p24(331–354 HXB2)	KTILKALGPAATLEEMM-TACQGVG	Inact HIV-1 lysate		murine(IgG ₁ κ)
101 FH2	p24(201–215) References: [Hinkula (1990)] <ul style="list-style-type: none">• FH2: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 –Hinkula90	p24(333–347 HXB2)	ILKALGPAATLEEMM	no	rec p24-15	murine(IgG ₁ κ)

B Cell

HIV Monoclonal Antibodies

MAb ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species(Isotype)
102 13B5	p24(206–215) Donor: bioMerieux References: [Berhet-Colominas (1999)] • 13B5: FAb which was bound to p24 capsid for crystallization and study of p24's structure –BerhetColominas99;	p24(205–213)	LGPAATLEEM		rec p24 RH24	murine()
103 106/01	p24(211–230)	p24(343–362 IIIB)	LEEMMTACQGVGGPGH-KARV	no	IIIB p24- β -gal fusion	murine(IgG ₁)
						References: [Niedrig (1991)] • 106/01: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests –Niedrig91
104 LH-104-B	p24(225–230)	p24(357–362 BRU)	GHKARV	no	Peptide	murine(IgG ₁ κ)
						References: [Haaheim (1991)] • LH-104-B: Binds exclusively with p55 (not p24), in contrast to LH-104-I –Haaheim91 • LH-104-B: UK Medical Research Council AIDS reagent: ARP308
105 LH-104-I	p24(226–231)	p24(358–363 BRU)	HKARVL	no	Peptide	murine(IgG ₁ κ)
						References: [Haaheim (1991)] • LH-104-I: Binds exclusively with p24 (not p55), in contrast to LH-104-B –Haaheim91 • LH-104-I: UK Medical Research Council AIDS reagent: ARP321
106 91-6	p24()	p24(121-240)		no	HIV-1 infection	human(IgG ₁ λ)
						References: [Gorny (1989), Robinson (1990b)] • 91-6: No enhancing activity for HIV-1 IIIB –Robinson90a • 91-6: NIH AIDS Research and Reference Reagent Program: 1239